BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Drilling of Borewell and Erection of Pumpset, Electrification to Borewell at Nagenahalli, Herohalli, Kenchanahalli Village Areas in Attur Ward No.01 of Yelahanka Sub Division.

Modified Schedule-B

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
1	Labour charges for Lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m)). for 50 mm as per the Directions of Egineer In-Charge.	Job	3.00	259.36	Rupees Two Hundred Fifty Nine And Paise Thirty Six Only
2	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32mm / 50mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m)as per the Directions of Egineer In-Charge.	Job	3.00	211.79	Rupees Two Hundred Eleven And Paise Seventy Nine Only
3	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 4.0Sqm as per the Directions of Egineer In-Charge.	Rmtr	0.00	172.97	Rupees One Hundred Seventy Two And Paise Ninety Seven Only
4	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 6.0Sqm as per the Directions of Egineer In-Charge.	Rmtr	0.00	252.25	Rupees Two Hundred Fifty Two And Paise Twenty Five Only
5	Fabricating supplying and mounting MS box made out 14SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete., as per the Directions of Egineer In-Charge. 1200x850x2=2040000, 850x350x2=595000, (350+450)/2=400, 400x1200=480000, 480000x2=960000, 3595000/100=35950Sqcm	Sqcm	107850.00	0.51	Rupees And Paise Fifty One Only
6	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm as per the Directions of Egineer In-Charge. (Per leg 2. 5MtrX2 Nos legs)-5.00 Mtr Per Box	Rmtr	15.00	314.03	Rupees Three Hundred Fourteen And Paise Three Only
7	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws. F) 20" x 20" x 2.5" (as per the Directions of Egineer In-Charge.	Each	3.00	335.78	Rupees Three Hundred Thirty Five And Paise Seventy Eight Only
8	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 as per the Directions of Egineer In-Charge.	Each	3.00	3179.40	Rupees Three Thousand One Hundred Seventy Nine And Paise Forty Only
9	Supplying & fixing of Porcelain fuse channel with cutout on existing wooden/panel using necessary nuts, bolts and washers as per the Directions of Egineer In-Charge.	Each	3.00	412.87	Rupees Four Hundred Twelve And Paise Eighty Seven Only
10	Earthing: Suppluing and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts,nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia as per the Directions of Egineer In-Charge.	Nos	3.00	3613.90	Rupees Three Thousand Six Hundred Thirteen And Paise Ninety Only

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
11	Providing, Laying and Fixing of GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. (contractor will make his own arrangements for procuring water for testing) For:Heavy Duty GI Pipe etc. complete. Light Duty GI pipe of 50mm dia as per the Directions of Egineer In-Charge.	Rmtr	0.00	500.59	Rupees Five Hundred And Paise Fifty Nine Only
12	Providing Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, to work site as per necessary ammendments and instructions of engineer incharge of work as per the Directions of Egineer In-Charge. 10.00 HP - 90 LPM @ 220 m = 20 STG Outlet Dia - 2.00" as per the Directions of Egineer In-Charge.	Nos	3.00	61851.37	Rupees Sixty One Thousand Eight Hundred Fifty One And Paise Thirty Seven Only
13	Supply, installing,testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type NOTE: 1) DOL- Direct Online Starter 2) S-D- Star Delta Starter etc. complete.6 to 15 HP pumps as per the Directions of Egineer In-Charge.	Each	3.00	18007.70	Rupees Eighteen Thousand Seven And Paise Seventy Only
14	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50mm dia as per the Directions of Egineer In-Charge.	Each	20.00	1415.70	Rupees One Thousand Four Hundred Fifteen And Paise Seventy Only
15	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union as per the Directions of Egineer In-Charge.	Each	20.00	302.39	Rupees Three Hundred Two And Paise Thirty Nine Only
16	Supply and delivery at site wrought middle steel (galvanized) GI elbow confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union as per the Directions of Egineer In-Charge..	Each	20.00	302.39	Rupees Three Hundred Two And Paise Thirty Nine Only
17	Supply and delivery at site wrought middle steel (galvanized) GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI hexagonal nipple as per the Directions of Egineer In-Charge.	Each	20.00	241.24	Rupees Two Hundred Forty One And Paise Twenty Four Only
18	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI collar as per the Directions of Egineer In-Charge.	Nos	0.00	302.39	Rupees Three Hundred Two And Paise Thirty Nine Only
19	Cutting and threading G.I. pipes for pump fitting, public fountains with appurtenances., where the length of pipe laid is less than 6 metres Pipes of dia 32mm to 80mm as per the Directions of Egineer In-Charge.	Each	0.00	364.68	Rupees Three Hundred Sixty Four And Paise Sixty Eight Only
20	Cutting Asphalt /Concrete road surface using machine cutter for leakage pit with earth work excavation in all classifications of soil including all lead and lifts bailing out water with pumps including barricading, danger lighting etc., as per requirement and disposing of the excavated stuff as directed. After attending the leak, refilling the trench for 30 cm depth quarry dust above and around pipelines and balance with available earth in layers not exceeding 20 cms in depth, compacting Each deposited layer by ramming including watering and consolidation by mechanical means approved by Engineer Incharge. (Work to be carried out as per leak repair manual and the rate includes hire charges of dewatering Pump, tractor, Jeep with all kinds of Labour in a Complete manner) as per the Directions of Egineer In-Charge	Cum	166.14	1310.37	Rupees One Thousand Three Hundred Ten And Paise Thirty Seven Only

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
21	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. In all kinds of soils. Depth upto 1.50m as per the Directions of Egineer In-Charge.	Cum	332.28	548.16	Rupees Five Hundred Forty Eight And Paise Sixteen Only
22	Providing PVC ringtite pipes conforming to IS 985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For: PVC pipes 50mm dia., 6 kg/sqcm & class 5 as per the Directions of Egineer In-Charge.	Rmtr	1846.00	114.39	Rupees One Hundred Fourteen And Paise Thirty Nine Only
23	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m, and lift upto 1.5 m. Including cost of all labour complete as per specifications as per the	Cum	254.75	181.21	Rupees One Hundred Eighty One And Paise Twenty One Only
24	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per the Directions of Egineer In-Charge	Cum	110.76	2898.22	Rupees Two Thousand Eight Hundred Ninety Eight And Paise Twenty Two Only
25	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates as per the directions of the Engineer-in-charge of the work as per the Directions of Egineer In-Charge	Cum	166.14	7508.87	Rupees Seven Thousand Five Hundred Eight And Paise Eighty Seven Only

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
26	Geophysical investigation at site for sinking borewells for Providing drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test. etc. complete as per the Directions of Egineer In-Charge.	Each	5.00	5988.98	Rupees Five Thousand Nine Hundred Eighty Eight And Paise Ninety Eight Only
27	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth) as per the Directions of Egineer In-Charge.a) 0.00 to 50.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	419.05	Rupees Four Hundred Nineteen And Paise Five Only
28	b) 50.00 to 100.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	525.51	Rupees Five Hundred Twenty Five And Paise Fifty One Only
29	c) 100.00 to 150.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	558.35	Rupees Five Hundred Fifty Eight And Paise Thirty Five Only
30	d) 150.00 to 200.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	647.82	Rupees Six Hundred Forty Seven And Paise Eighty Two Only
31	e) 200.00 to 250.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	759.95	Rupees Seven Hundred Fifty Nine And Paise Ninety Five Only
32	f) 250.00 to 300.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	250.00	838.09	Rupees Eight Hundred Thirty Eight And Paise Nine Only
33	g)300.00 to 350.00 mtrs as per the Directions of Egineer In-Charge.	Rmtr	60.00	983.06	Rupees Nine Hundred Eighty Three And Paise Six Only
34	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty as per the Directions of Egineer In-Charge.	Rmtr	290.00	2189.24	Rupees Two Thousand One Hundred Eighty Nine And Paise Twenty Four Only

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
35	Providing Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, to work site as per necessary ammendments and instructions of engineer incharge of work. For 12.50 HP - 90 LPM @ 264 m = 24 STG Outlet Dia - 2.00" as per the Directions of Egineer In-Charge.	Nos	4.00	72658.81	Rupees Seventy Two Thousand Six Hundred Fifty Eight And Paise Eighty One Only
36	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 6.0Sqm as per the Directions of Egineer In-Charge.	Rmtr	1450.00	252.25	Rupees Two Hundred Fifty Two And Paise Twenty Five Only
	Above 125%	Rmtr	630.00	237.75	Rupees Two Hundred Thirty Seven And Paise Seventy Five Only
37	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50mm dia as per the Directions of Egineer In-Charge.	Each	4.00	1415.70	Rupees One Thousand Four Hundred Fifteen And Paise Seventy Only
38	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm as per the Directions of Egineer In-Charge.	Nos	4.00	1415.70	Rupees One Thousand Four Hundred Fifteen And Paise Seventy Only
39	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union as per the Directions of Egineer In-Charge.	Nos	4.00	302.39	Rupees Three Hundred Two And Paise Thirty Nine Only
40	Providing, Laying and Fixing of GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. (contractor will make his own arrangements for procuring water for testing) For:Heavy Duty GI Pipe etc. complete. Light Duty GI pipe of 50mm dia as per the Directions of Egineer In-Charge.	Rmtr	1038.00	500.59	Rupees Five Hundred And Paise Fifty Nine Only
41	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union as per the Directions of Egineer In-Charge.	Each	4.00	302.39	Rupees Three Hundred Two And Paise Thirty Nine Only
42	Supply, installing,testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type NOTE: 1) DOL- Direct Online Starter 2) S-D- Star Delta Starter etc. complete.6 to 15 HP pumps as per the Directions of Egineer In-Charge.	Each	4.00	18007.70	Rupees Eighteen Thousand Seven And Paise Seventy Only
43	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work as per the Directions of Egineer In-Charge.	Job	4.00	7361.64	Rupees Seven Thousand Three Hundred Sixty One And Paise Sixty Four Only
44	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws. F) 20" x 20" x 2.5" as per the Directions of Egineer In-Charge.	Each	4.00	335.78	Rupees Three Hundred Thirty Five And Paise Seventy Eight Only

Sl. No.	Description of work	Unit	Quantity	Rate in Rs.	
				In Figures	In Words
45	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work as per the Directions of Egineer In-Charge.	Job	4.00	1642.21	Rupees One Thousand Six Hundred Forty Two And Paise Twenty One Only
46	Earthing: Suppluing and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts,nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia as per the Directions of Egineer In-Charge.	Job	4.00	3613.90	Rupees Three Thousand Six Hundred Thirteen And Paise Ninety Only
47	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 as per the Directions of Egineer In-Charge.	Each	4.00	3179.40	Rupees Three Thousand One Hundred Seventy Nine And Paise Forty Only
48	Supply and delivery at site brand new best make starter/ control panel suitable for following HP centrifugal pump confirming with ISI mark and its latest amendments. 10 to 12 HP centrifugal pump as per the Directions of Egineer In-Charge.	Each	4.00	40375.76	Rupees Forty Thousand Three Hundred Seventy Five And Paise Seventy Six Only
49	Yield testing of borewells at final depth with a minimum of 10 hours continuously with the help of pump testing unit including the cost of transportation charges, crew charges and cost of consumables as per the Directions of Egineer In-Charge.	Each	4.00	18467.52	Rupees Eighteen Thousand Four Hundred Sixty Seven And Paise Fifty Two Only
50	Supplying of TPST with rewirable porcelain channels in SM enclosure. Made out of 14 SWG powder coated paint of approved colour. 32A as per the Directions of Egineer In-Charge.	Nos	4.00	1751.35	Rupees One Thousand Seven Hundred Fifty One And Paise Thirty Five Only
51	Supplying and fixing LED Type panel board indicating lamp with required colour Suitable for 220 V AC 50Hz 12/24 V DC Group 'A' as per the Directions of Egineer In-Charge.	Nos	12.00	530.24	Rupees Five Hundred Thirty And Paise Twenty Four Only
52	Supplying & fixing of Porcelain fuse channel with cutout on existing wooden/panel using necessary nuts, bolts and washers as per the Directions of Egineer In-Charge.	Each	24.00	412.87	Rupees Four Hundred Twelve And Paise Eighty Seven Only
53	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm as per the Directions of Egineer In-Charge. (Per leg 2. 5MtrX2 Nos legs)-5.00 Mtr Per Box	Rmtr	20.00	314.03	Rupees Three Hundred Fourteen And Paise Three Only
54	Supplying Fully Automatic Star- Delta Starter Unit Push Button Type With Suitable Wires 3 Contractors, One Adjustable Thermal Timer Mounted on a Common Base Plate held in Steel Enclosure For Use on 400/440 Volts 3 Phase and Wired after Fixing to the Exisiting Wooden Board For Motor, Above 12.5 HP upto 25 HP as per the Directions of Egineer In-Charge.	Nos	4.00	9023.41	Rupees Nine Thousand Twenty Three And Paise Forty One Only
55	BESCOM Deposit charges and misc as per the Directions of Egineer In-Charge.	LS	0.00	15444.00	Rupees Fifteen Thousand Four Hundred Forty Four Only

SHADAYAN

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